Chief, Office of Naval Research Department of the Navy Washington 25, D. C. Attention: Code 414, Subject: Contrac Proposal for Extension of Perceptron Applicability to Automatic Photo-Interpretation Enclosure: (1) Technical Proposal (2) Estimated Cost Breakdown (3) Certificate of Current Pricing Data (4) No-Contingent Fee Statement Dear Sir: As a result of our recent presentation at ONR on research to date under the subject contract and your invitation, we are pleased to submit a proposal for additional research effort on the applicability of perceptrons to photo interpretation. Our efforts to date have generally confirmed the validity of the system philosophy being planned and have provided evaluation of a number of techniques for accomplishing the various steps of object processing in an automatic system. Our proposal for continuing effort under Contract offers three alternate programs at varying levels of scope and funding. Briefl and for clarity, these program alternates are defined as follows: A. Optimum Program - to be performed in a 12-month period from date of authorization to proceed, and to include the following efforts: 1) Additional study of automatic photo interpretation concepts, utilizing the IBM 704 computer including: (a) Further investigation of techniques for object detection. (b) Additional recognition experiments using actual photo- graphic material.	-		,	LE	G:mb-35	
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A detailed cost breakdown	appropriate to each	may be found in	enclosure	(2)
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* 1	Approved Parelease 2005/05/02 : CIA-RDP78B04 A002300030038-4
Т	14 January 1963
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	Office of Naval Research Page Three
•	Attn: Code 414,
	A standard of the above programs to be selected
	As authorization for one of the above programs to be selected, we would accept an amendment to Contract which adds the STA
	necessary funding and extends the performance period consistent with the
	program selected. At the present time, we are performing a limited effort
	under this contract pending contractual coverage for the no-cost time
	extension requested in our letter of 30 November 1962 (LEG:mb-861). In this connection, we understand that ONR proposes to extend the Contract
	at no cost for 6 months rather than 3 months requested by our letter, to
	allow sufficient time for contract action on this proposal for a funded program.
	A six month no-cost time extension would be acceptable to us, although we
1	believe it would be most advantageous to ONR and to the continuity of technical
	effort to fund the selected program at the earliest possible date.
*	A no-contingent fee statement and a certificate of current
	pricing data are included in enclosures (3) and (4).
• 1	For further technical information, please communicate
	Computer Research Department. Contractual matters will be handled by Contracts Department.
	will be handled by Contracts Department.
	Very truly yours.
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	Contract Manager
	Contract Manager
	Contract Manager cc: Chief, ONR, Washington 25, D.C.
	cc: Chief, ONR, Washington 25, D.C.
	cc: Chief, ONR, Washington 25, D.C. Contracts Division
	cc: Chief, ONR, Washington 25, D.C.
	cc: Chief, ONR, Washington 25, D.C. Contracts Division
	cc: Chief, ONR, Washington 25, D.C. Contracts Division

25X1

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	(2) The armed services in general are not sware of this potential problem area; consequently, their MaD units are hard pressed to justify support of development in this realm.
Fe.z.	(3) The original development of the FRECEPTRON in 1958 has stimulated development of similar cognitive systems throughout the electronics industry. Most of these developments are highly specialized and somewhat premature, but some appear to be nearing a practical hardware stage for simple recognition tasks.
	(4) The PERCEPTRON related developments show more promise of automating the P.I. process than the purely digital mathematical techniques.
	has the most extensive experience in this field. Six years have been spent in general research. Most of the related systems in existence today have been investigated and evaluated by 25X1 The subject proposal indicates that seientists now believe that research 25X1 may be directed toward specific applications.
3.	COMCLUSIONS:
lis	a. There is genuine cause to be concerned about the future problem of utiling photographically recorded intelligence at the same rate it is acquired.
	b. Automation is the most logical solution to this problem.
app.	c. Developments in this realm to date indicate that the first practical lication of such automation is still several years away.
the	d. The experience, competence and state of development in this science at justifies continued support of their research.
4.	RECOMMONDATIONS:
thei to c	be awarded a CFFF contract in accordance with ir contract proposal and covering letter, dated 14 January 1963, for cover the cost of the Modest Program, item B.
leve	b. Arrangements be made to maintain this development at an unclassified 25X1

Approved For Release 2005/05/02 : CIA-RDP78B04770A002300030038-4

Development Brench, PLDS

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Date January 14, 1963

NO-CONTINGENT FEE STATEMENT

This Laboratory represents that it has not employed or retained any company or person (other than a full-time bona fide employee working solely for this Laboratory) to solicit or secure this contract and that it has not paid or agreed to pay to any company or person (other than a full-time bona fide employee working solely for this Laboratory) any fee, commission, percentage or brokerage fee, contingent upon or resulting from the award of this contract; and agrees to furnish information relating thereto as requested by the Contracting Officer. (Note: For interpretation of the representation, including the term "bona fide employee", see General Services Administration Regulation, Title 44, secs. 150.7 and 150.5 (d) Fed. Reg. Dec. 31, 1952, Vol. 17, No. 253,)

This Laboratory further represents that it currently employs over 500 full-time employees.

By______Assistant Secretary

Dated